GIS Support for HPMS

- What is required?
- What is Caltrans doing to meet the requirements?
- Where is Caltrans now?
- What does Caltrans have left to do?
- How is CRS connected
      with HPMS?

What is required?

- The Federal Highway Administration (FHWA) now requires shapefiles showing roadway geometry and a Linear Referencing System (LRS) to be submitted with the HPMS Submittal.
- Required for all public roads.
  - State Highways
  - Local Roads
  - Ramps
- Caltrans is undertaking a multi-year effort to comply with this requirement.

What is Caltrans doing to meet the requirements?

Caltrans has developed a state highway road layer and LRS.

- Old highway layer purchased from a third party vendor.
  - Proprietary data. Contractually forbidden to share.
- New highway layer developed from 2009 TIGER.
  - Highway linework adjusted to aerial imagery.
  - LRS developed. (LIGER)
  - Free and publicly shareable.
  - To be released in 2011.

Where is Caltrans now?

- Digitizing ramps.
  - Expect to be complete in time for the June HPMS submittal.
- Conflating functional classification.
  - Expect to be complete in 2012.

What does Caltrans have left to do?

- Develop an local road system GIS layer and LRS.
  - ◦ Three options to accomplish this.
    - Use existing TIGER data and build an LRS.
    - Purchase data from a third party provider.
    - Gather roadway geometry and LRS from local and regional agencies in California.

How is CRS connected with HPMS?

- Functional Classification certification on CRS maps is a prerequisite for publication in the maintained mileage report and for HPMS submittal.
- When the FHWA certification is complete the local agency and HPMS will be informed of the change.
- Below is a link to the CRS maps.
  - ◦ http://dot.ca.gov/hq/tsip/hseb/crs_maps/index.php

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